

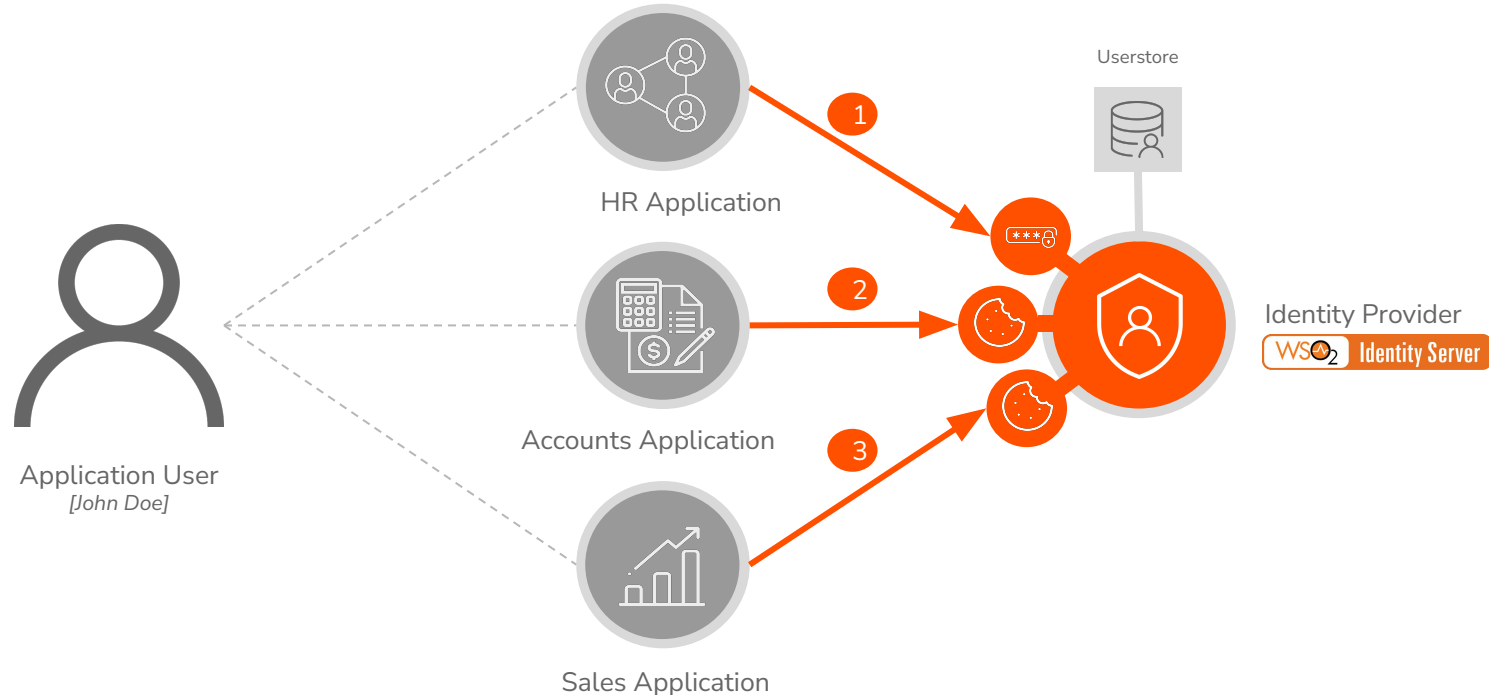


# Single Sign-On with SAML



# What is Single Sign-On

Sign in to one application and gain access to all the other applications sharing the same session



# What is Security Assertion Markup Language (SAML)

- An XML-based markup language for security assertions
- An open standard for exchanging authentication and authorization data between parties, in particular, between an identity provider and a service provider

# SAML2 Participants

Who does what

Subject/  
Principal



*[John Doe]*

Client Application/  
Relying Party



*[Zoom]*

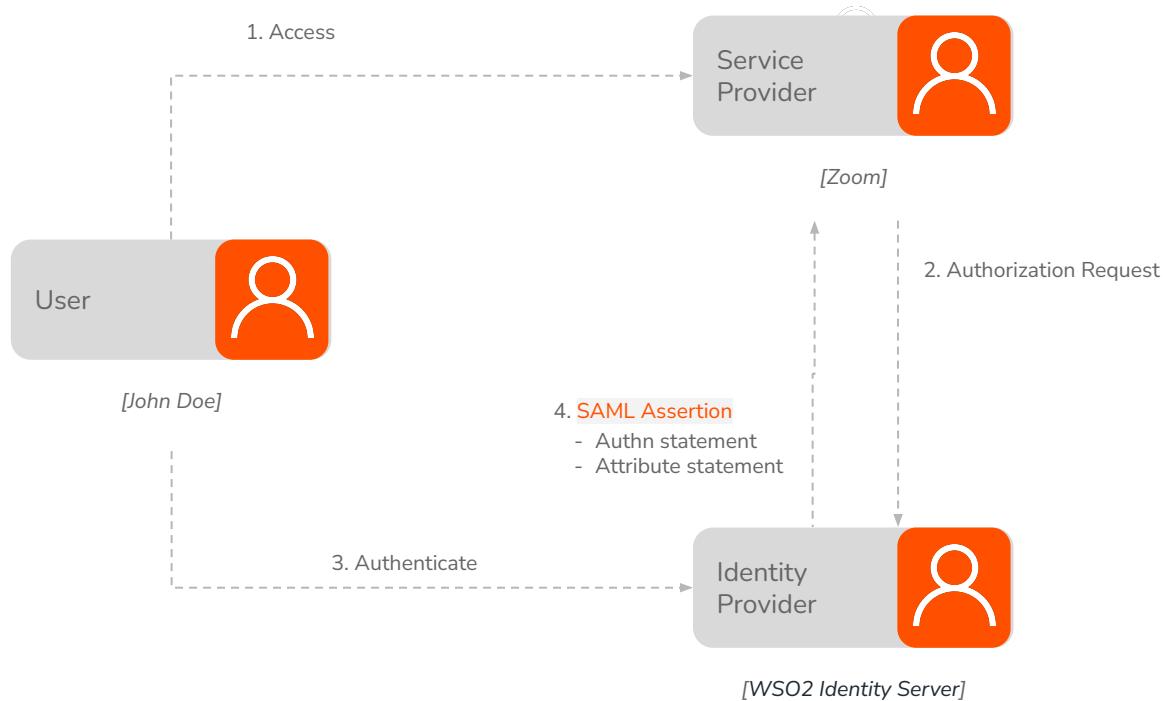
Asserting Party



*[WSO2 Identity Server]*

# SAML2-Based Authentication

## Message flow



# Sample SAML Assertion

```
<saml:Assertion ID="bejjlmgadpgpmhpnkklhongkbbakmmohdnmmpi1" IssueInstant="2010-06-12T16:56:39.013Z" Version="2.0">
  <saml:Issuer Format="urn:oasis:names:tc:SAML:2.0:nameid-format:entity">https://localhost:9443/samlso</saml:Issuer>
  <saml:Subject>
    <saml:NameID Format="urn:oasis:names:tc:SAML:1.1:nameid-format:emailAddress">admin</saml:NameID>
    <saml:SubjectConfirmation Method="urn:oasis:names:tc:SAML:2.0:cm:bearer">
      <saml:SubjectConfirmationData InResponseTo="0" NotOnOrAfter="2010-06-12T17:01:39.012Z" Recipient="http://localhost:8888/saml2-demo/simple"/>
    </saml:SubjectConfirmation>
  </saml:Subject>
  <saml:Conditions NotBefore="2010-06-12T16:56:39.013Z" NotOnOrAfter="2010-06-12T17:01:39.012Z">
    <saml:AudienceRestriction>
      <saml:Audience>http://localhost:8888/saml2-demo/simple</saml:Audience>
    </saml:AudienceRestriction>
  </saml:Conditions>
  <saml:AuthnStatement AuthnInstant="2010-06-12T16:56:39.020Z">
    <saml:AuthnContext>
      <saml:AuthnContextClassRef>urn:oasis:names:tc:SAML:2.0:ac:classes:Password</saml:AuthnContextClassRef>
    </saml:AuthnContext>
  </saml:AuthnStatement>
</saml:Assertion>
```

# SAML Specifications

- SAML 2.0 Core
- SAML 2.0 Bindings
- SAML 2.0 Profiles
- SAML 2.0 Metadata



# Quick Recap







# What you learnt

1. About Single Sign-On (SSO)
2. SAML2 participants
3. SAML2 authentication flow
4. SAML assertion
5. SAML specification

# Any Questions ?

Reach us through the following channels

✉ [iam-dev@wso2.org](mailto:iam-dev@wso2.org)

📄 <https://stackoverflow.com/questions/tagged/wso2-identity-server>

🗯 <https://discord.com/invite/Xa5VubmThw>

# Thanks!



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